

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-42. (Cancelled)

43. (New) An isolated or recombinant polypeptide that comprises a glycosyltransferase;
wherein a nucleotide sequence from a lipooligosaccharide (LOS) locus from *Campylobacter* comprises a polynucleotide sequence that encodes the glycosyltransferase; and
wherein the nucleotide sequence from the LOS locus is amplified by PCR using a first primer comprising SEQ ID NO:40 and a second primer comprising SEQ ID NO:41.

44. (New) The isolated or recombinant polypeptide of claim 43, wherein the glycosyltransferase is an α -2,3-sialyltransferase polypeptide.

45. (New) The isolated or recombinant polypeptide of claim 44, wherein the α -2,3-sialyltransferase polypeptide also has α -2,8-sialyltransferase activity.

46. (New) The isolated or recombinant polypeptide of claim 44, wherein the α -2,3-sialyltransferase polypeptide further comprises a tag for purification.

47. (New) The isolated or recombinant polypeptide of claim 43, wherein the glycosyltransferase is a β 1,3-galactosyltransferase polypeptide.

48. (New) The isolated or recombinant polypeptide of claim 47, wherein the β 1,3-galactosyltransferase polypeptide further comprises a tag for purification.

49. (New) The isolated or recombinant polypeptide of claim 43, wherein the glycosyltransferase is a β 1,4-N-acetylglucosaminyl (GalNAc) transferase polypeptide.

50. (New) The isolated or recombinant polypeptide of claim 49, wherein the β 1,4-GalNAc transferase polypeptide further comprises a tag for purification.

51. (New) An isolated or recombinant nucleic acid molecule that comprises a nucleotide sequence from a lipooligosaccharide (LOS) locus from *Campylobacter* that encodes at least one glycosyltransferase polypeptide;

wherein the glycosyltransferase polypeptide has α -2,3-sialyltransferase activity, β 1,3-galactosyltransferase activity, or β 1,4-N-acetylglucosaminyl (GalNAc) transferase activity; and

wherein the nucleotide sequence from the LOS locus is amplified by PCR using a first primer comprising SEQ ID NO:40 and a second primer comprising SEQ ID NO:41.